



**FERROXCUBE
CORPORATION OF AMERICA
SAUGERTIES, NEW YORK**

**FERROXCUBE
PRINTED CIRCUIT
BOBBINS
Bulletin 220 S3**

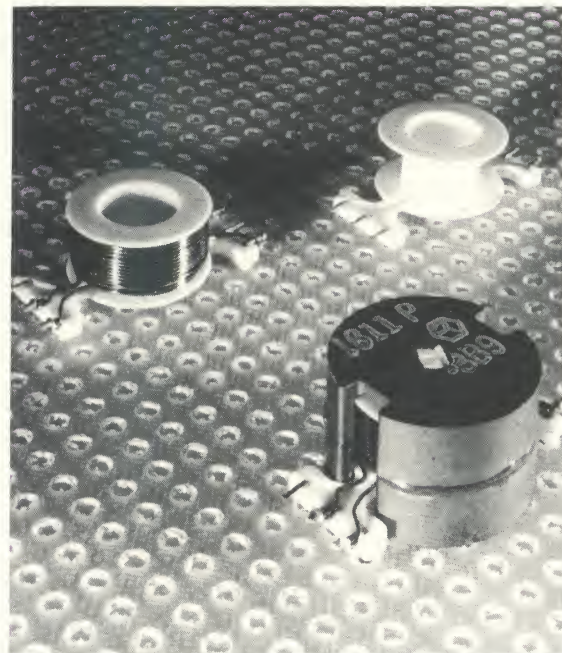
**PRINTED CIRCUIT BOBBINS
for use with
FERROXCUBE P-SERIES PRECISION POT CORES**

Ferroxcube PC Bobbins offer a combination of advantages that permits significant improvement in efficiency and economy, both in the volume production of miniature inductors and transformers, and in their incorporation into printed circuit modules and assemblies. Designed for use with Ferroxcube Series 1408P, 1811P, 2213P and 2616P Precision Ferrite Pot Cores (0.599" to 1.024" O.D.), they provide a precise-dimensioned coil form that enables design and construction of magnetic-core coils and transformers of optimum characteristics in standardized cores of minimum size, complete with pin terminations that permit direct insertion of the component into standard PC cards. Their savings in material costs and man-hours are compounded by the additional economy of space and weight that their use affords in equipment design.

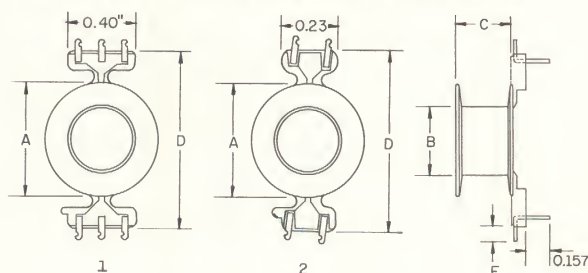
These accurately-formed, stable-dimensioned bobbins of glass-fibre-reinforced polyester greatly simplify automatic production of magnetic components; coil leads may be soldered directly and easily to the pin terminations, as part of the winding process, eliminating intermediate solder joints as a source of rejects. The core halves then need only be cemented together on the wound bobbin, to produce a complete, plug-in component that requires no additional mounting hardware, and effects a 30% reduction in height (compared to standard core mounting) with no increase in area.

As shown on the following page, the pin terminations fit the standard 0.1-inch and 2.5mm P.C. grids, and are suitable for automated insertion into P.C. boards up to 1/8" thick. They may be dip-soldered at 360° – 400°C for 1-2 seconds, or 260 – 280°C for 5-6 seconds, without damage to the bobbin, and the assembled component may be operated at ambient temperatures up to 130°C.

Critical dimensions for the four types are shown in the diagram and table below. Note that Type 1408PCBI is equipped with four pin terminals; Types 1811PCBI, 2213PCBI and 2616PCBI are six-pin units.

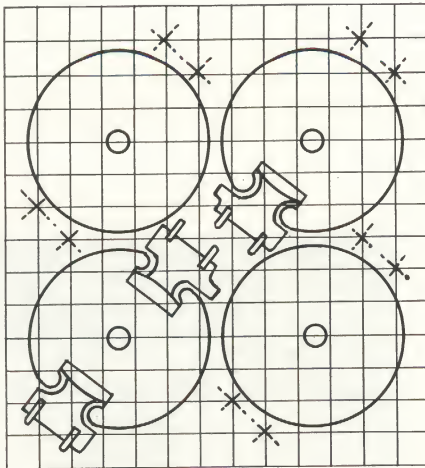


Note: Bobbin pins are Solder Tinned Brass.

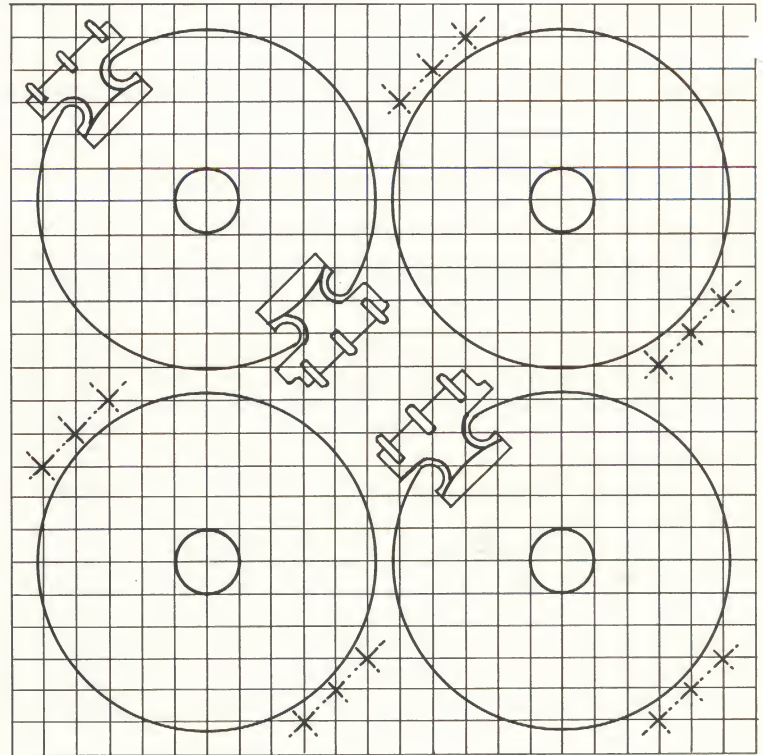


TYPE NO.	F I G.	WINDOW AREA (SQ. IN.)	MEAN LENGTH OF TURN (IN.)	DIMENSIONS IN INCHES				
				A	B	C	D	E
1408PCBI	2	0.015	1.14	0.453 +0.000 -0.008	0.280 +0.000 -0.004	0.213 +0.000 -0.004	0.748 MAX.	0.091 MAX.
1811PCBI	1	0.028	1.45	0.583 +0.000 -0.008	0.343 +0.000 -0.004	0.276 +0.000 -0.004	0.937 MAX.	0.079 MAX.
2213PCBI	1	0.043	1.73	0.701 +0.000 -0.008	0.421 +0.000 -0.006	0.354 +0.000 -0.006	1.071 MAX.	0.079 MAX.
2616PCBI	1	0.061	2.09	0.823 +0.000 -0.008	0.504 +0.000 -0.006	0.425 +0.000 -0.006	1.209 MAX.	0.079 MAX.

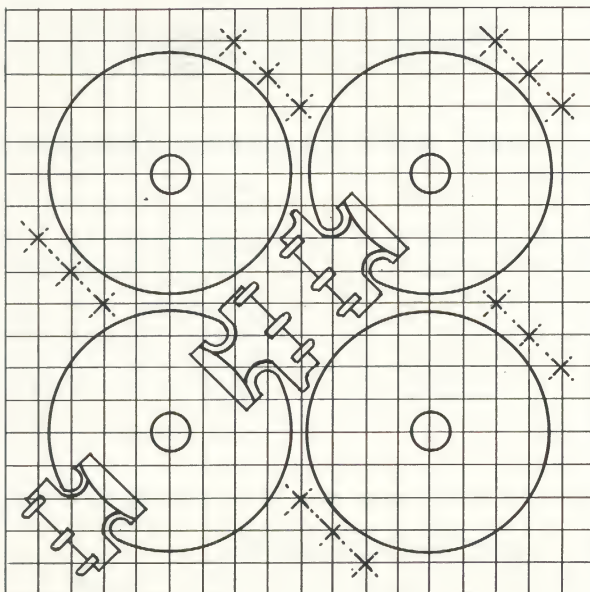
INSTALLATION PLAN FOR FERROXCUBE PC BOBBINS
MOUNTED IN STANDARD POT CORES
NOTE: EACH GRID SPACE = 0.1 INCH



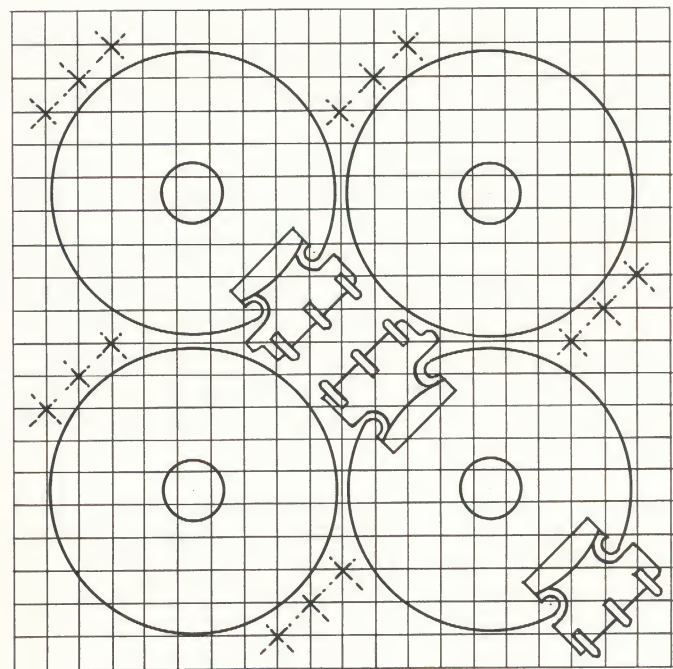
BOBBIN TYPE 1408PCBI
Maximum seated height: 0.335"



BOBBIN TYPE 2616PCBI
Maximum seated height: 0.640"



BOBBIN TYPE 1811PCBI
Maximum seated height: 0.428"



BOBBIN TYPE 2213PCBI
Maximum seated height: 0.538"



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Printed in U.S.A.